

**Progress Report**

**Austin/San Marcos MSA**

**Early Action Compact**



**Prepared on behalf of the Austin/San Marcos MSA Clean Air Coalition by:**  
The Early Action Compact Task Force and the CLEAN AIR Force

**Submitted to:**  
Texas Commission on Environmental Quality  
U. S Environmental Protection Agency, Region VI

**June 30, 2003**

## **Early Action Compact Progress Report January 1 through June 30, 2003**

This progress report is intended to fulfill the Early Action Compact (EAC) June 30<sup>th</sup> reporting requirement. The report provides information on stakeholder work groups (point, area, on-road mobile and non-road mobile) and the public involvement process, as well as information on EAC modeling and technical planning activities. The primary goal of this phase of the stakeholder process was the development of the list of potential emission reduction measures. The list of measures is attached as Appendix 1, as well as additional information on the public involvement process, the "CAF EAC Public Involvement Initiative". In addition, other attachments are: Appendix 3, the summary of findings by the vehicle inspection and maintenance stakeholders group; and, Appendix 4, the evaluation criteria being used for evaluation the various emission reduction measures.

Elected Official signatures were completed by December, 2002 committing the five counties and seven cities in the Austin-San Marcos MSA to participation in the Early Action Compact. The elected official representatives of these entities comprise a group known as the Clean Air Coalition (CAC) and they have met three times over the report period. The purpose of the CAC as expressed in the bylaws is to:

- Develop, adopt, and implement a clean air plan for the counties of Bastrop, Caldwell, Hays, Travis and Williamson,
- Establish and monitor a regional effort toward the improvement of air quality,
- Develop policies and strategies that will provide guidance for each of its independent governing bodies about actions that will achieve clean air in Central Texas,
- Work cooperatively to achieve clean air standards that will protect public health and yet allow local governments the flexibility to select measures best-suited to each community's needs and resources.

This progress report constitutes only a brief summary of the activities which have been taking place over the past six months in furtherance of the objectives of the CAC and the CLEAN AIR Force, and the commitments made in the EAC. Additional information in the form of meeting summaries and reports is available upon request to the Early Action Compact Task Force, the CLEAN AIR Force or the Capital Area Planning Council.

## Members, EAC Stakeholder Work Groups

**Point Sources Committee,  
Ramon Alvarez, Environmental Defense, Facilitator**

<b>Name</b>	<b>Affiliation</b>
Mack Andrews	Univ. of Texas at Austin
Richard Bennett	Huntsman Corporation
Cliff Braddock	Austin Energy
Bob Breeze	Austin Energy
Robert Camacho	Motorola
Joanie Cook	Fort Hood
Elizabeth Kasprovicz	Austin Energy
Ken Manning	Lower Colorado River Authority
Elizabeth Munger	Austin Idea Network
Jason Pence	Acme Brick
Ruth Platt	Advanced Micro Devices
Seth Randall	Jenkins & Gilchrist
George Robinson	Austin White Lime
Bob Stewart	West Texas Gas (owner Luling Gas Plant)
Ryan Thompson	Univ. of Texas, Austin
Rick Waddell	LeHigh Cement
Doug Wilcox	3M Austin Center
Fred Yebra	Austin Energy (Energy Conservation Programs)

Activity summary- The committee met three times and organized two subcommittees (addressing utility-related measures and energy efficiency/demand management measures). The energy efficiency subcommittee met on June 3<sup>rd</sup> via conference call. Committee activities included:

- Reviewed and verified the 1999 and 2007 emissions inventories relative to their respective operations
  - verified and confirmed major sources (temporal, spatial and emissions)
  - updated data for the 1999 and 2007 Austin Energy VOC emissions
  - updated 2007 Advanced Micro Devices (AMD) emissions
  - all updates converted into EPS model ready format,
- Provided to technical staff revisions to each EI as appropriate,
- Identified and prioritized strategies,
- Initiated evaluation of measures.

**On-Road Mobile Source Committee,  
Cathy Stephens, CAMPO, Facilitator**

<b>Name</b>	<b>Affiliation</b>
Michael Albrecht	Clean Air Force
Deanna Altenhoff	Austin Chamber
Nancy Avitia	CAMPO
Candace Baker	Railroad Commission
Heather Ball	Texas Commission on Environmental Quality
Hazel Barbour	(TCEQ)
Monica Beard	UT – Austin
Ed Berger	Seton
Fred Blood	City of Austin
Morris Brown	TCEQ
Coyle Buhler	Caldwell County
Thomas Butler	Downtown Austin Alliance
Skip Cameron	Bull Creek Foundation
Jose Campos	FHWA
Joseph Carrizales	TxDOT – Austin District
Janice Cartwright	Real Estate Council of Austin
Barbara Casey	
Dominic Chavez	Real Estate Council of Austin
Rachel Clampffer	CAMPO
LeRoy Click	Travis County
Rob D'Amico	TMG
Darrell David	
Brett Davis	Motorola
Rebecca Dennison	FHWA
Curtis Donaldson	CFT Dispensers
Leonard Dougal	
Brad Ehlers	Capital Metro
Stephanie Garcia	City of San Marcos, City Manager's Office
Bill Gill	CAPCO
Bill Hamilton	City of Rollingwood
Paul Hamilton	CARTS
Kim Herndon	TCEQ
Mark Hodges	TxDOT – TPP
Franz Hoffman	Railroad Commission
Jeff Jack	
Amy Johnson	
William Jordan	TxDOT – ENV

*(On-Road, continued)*

Marc Kohler  
 Bob King  
 Lee Leffingwell  
 Don Lewis  
 Ken Limbrick  
 Charlie Maddox  
 Ed Martin  
 Surinder Marwah  
 Margie McAllister  
 Kelly McEuen  
 Dean McWilliams  
 Diane Miller  
 Elizabeth Munger  
 Stacy Neef  
 Mary Neely  
 Frank Nieto  
 Dan O'Leary  
 Bill Oswald  
 Ed Pensock  
 Jenny Peterman  
 Roger Ramon  
 Carmen Ramos  
 Rich Reich  
 Alfred Reyes  
 Isidro Rodriguez  
 Lora Schneider  
 Diana Schulze  
 Mark Smyth  
 Cathy Stephens  
 Vesna Suglin  
 Soll Sussman  
 Carl Tepper  
 Jim Terrell  
 Michael Thane  
 Wade Thomason  
 Annette Todd  
 Erin Toedtman  
 Jeff Trigger  
 Diana Vargas  
 Scheleen Walker  
 Lisa Weston  
 Tod Wickersham  
 Bob Wierzowiecki  
 Wendy (Frizzell) Willingham

Good Company Associates

TxDOT – GSD  
 UT – Austin  
 City of Austin  
 TSIA  
 Capital Metro  
 TCEQ  
 Railroad Commission  
 Applied LNG Technologies USA (ALT)  
 Envision Central Texas  
 Gladstein & Associates  
 City of Austin  
 LCRA  
 TxDOT – GSD  
 City Manager, City of San Marcos  
 Koch Flint Hills Petroleum  
 TxDOT – TTA  
 TxDOT – Austin District  
 AQSI  
 TxDOT – Austin District  
 IBM  
 AGTX-EV  
 Austin Energy  
 City of Austin  
 TxDOT – Austin District  
 UT – Austin  
 CAMPO

General Land Office

McWilliams & Associates  
 City of Round Rock  
 Good Company  
 Williamson County  
 CAPCO  
 Driskill Hotel  
 TxDOT – TTA  
 Travis County  
 UT – Austin  
 Good Company  
 TCEQ  
 City of Austin

*(On-Road Mobile, continued)*

Activity summary- The on-road mobile committee met 8 times over the period. Committee activities included:

- Reviewed the on-road mobile emissions inventory,
- Developed, reviewed and refined the list of on-road measures,
- Performed a general evaluation of fuel, inspection & maintenance (I&M) and trip reduction measures. The group found them acceptable and worth further evaluation. Discussed information on various Trip Reduction Ordinance programs throughout the country.
- In-depth evaluations have been initiated of vehicle fueling options, I&M programs, and trip reduction measures to better define and quantify emission reductions and costs, as well as, implementation strategies.

**Non-Road Mobile Source Committee,  
David Balfour, URS and GACC, Facilitator**

<b>Name</b>		<b>Affiliation</b>
Jim	Alty	UT Austin
Lydle	Arche	Caldwell County Agent
Rick	Baker	ERG
David	Balfour	URS Corporation
Jon	Betcher	AGC of Texas
Fred	Blood	City of Austin
Jerry	Borcherding	Hayes County
Morris	Brown	TCEQ
Greg	Buck	
Scott	Budd	Capital Excavation Company
Brooke	Bulow	Home Builders Association (HBA) of Greater Austin
Joanie	Cook	DPW Environmental
Larry	DeGlandon	Travis County
Rebecca	Doll	
Stephanie	Garcia	City of San Marcos
Marilyn	Good	Texas Nursery & Landscape Association
Shane	Harbinson	City of Austin - Aviation
Susan	Heath	Southwest Airlines
Sandy	Hentges	Greater Austin Chamber
Howard	Herrin	Travis County
Kim	Hilsenbeck	Nustats
Sherri	Hull	Southwest Airlines
Scott	Johnson	Consultant
Bill	Jordan	TxDOT
Mike	Joyce	Travis County Fleet Manager
Bob	Leonard	West Beach Marina

*(Non-Road, continued)*

Don	Lewis	TxDOT
Mike	Magee	TCEQ
Larry	McGinnis	Hughes & Luce
Mary Ann	Neely	LCRA
Jennifer	Newton	AGC of Texas
Dan	O'leary	City of San Marcos
Thomas	Pavlovic	CAPCO
Roger	Ramon	AQSI
Vance	Rodgers	City of Lockhart
Barry	Rollman	JD Abrams
Harry	Savio	Home Builders Association (HBA) of Greater Austin
Debbie	Simmons	Clarion Inns and Suites
Karla	Smith	TCEQ
Wade	Thomason	Goodcompany Associates
Scheleen	Walker	Travis County
Tina	Walker	Carter Burgess
Wendy	Willingham	City of Austin
Max	Winkler	Filter Management Inc.

Activity summary- The entire non-road mobile committee met 6 times over the period. Individual control measure teams have had multiple meetings of their Action Teams. Two special meetings were held to discuss how the "contract Provisions" control measure for the construction industry might be implemented. Committee activities included:

- Recruited representatives of interest groups likely to be impacted by reduction measures,
- Assigned study and evaluation of specific measures to action teams,
- Developed a preliminary list of control measures and their associated evaluation forms,
- Examined impacts of existing federal and state emission reduction requirements,
- Investigated use of contract provisions for encouragement of the use of cleaner engines and fuels by contractors,
- Continued to better define specific control measures as appropriate and to discuss alternatives with stakeholder groups interested in equivalent emission reductions using measures more acceptable to the affected group.

**Area Source Committee,  
Erle Janssen, University of Texas, Facilitator**

<b>Name</b>	<b>Affiliation</b>
Adam Smith	City of Austin (Mayor Garcia's Office)
Julia Ragsdale	Photographer
Bob King	Good Company Associates
Chris Simek	NuStats
Dan O'Leary	City of San Marcos
Deana Altenhoff	CLEAN AIR Force
Fred Blood	City of Austin
Jeff Jack	Austin Neighborhoods Association
Jim Terrell	McWilliams and Associates
Joanie Cook	US Army
Rhonda Weldon	The University of Texas at Austin
Scott Johnson	Consultant
Scott Fisher	Texas Petroleum Marketing and Convenience Store Association
Stephanie Garcia	City of San Marcos
Thomas Pavlovic	CAPCO

Activity summary: The committee met four times. The main objectives of this committee are to identify area source categories of significance, to find applicable emission reduction measures and to establish contacts with area source stakeholders. The initial list of emission reduction measures was based on TCEQ regulations for the Houston and Dallas nonattainment areas. Over the past four months the committee has:

- Generated a list of companies/associations of the Area Source stakeholders in the Austin area,
- Sent letters to stakeholders,
- Established Contacts with:
  - Printing & Imaging Association of MidAmerica
  - Graphic Arts Technical Foundation,
- Reviewed and verified the 1999 and 2007 area source emissions inventory,
- Identified and prioritized area source categories that would be subject to emission reduction,
- Developed a preliminary list of control measures,
- Initiated the measure evaluation process.



**Update on CLEAN AIR Force Early Action Compact  
Public Outreach Activities**

(NuStats' Public Input Update as of 5/14/03 is attached)

<b>ACTIVITY</b>	<b>STATUS</b>	<b>GENERAL COMMENTS</b>
Public Events	Completed	Austin Home & Garden; Red Poppy Festival (Georgetown); Old Pecan Street Festival (Austin); Austin Parks Fest/Earth Day; Texas Natural Festival (San Marcos); Chisholm Trail Round-Up (Lockhart); Bastrop County Family Health Fair (Bastrop); Soletron Health Fair (Austin)
Public Presentations	Ongoing since 1/31/03	Kick-off Stakeholder Event at ABIA; NE Austin Rotary; Leadership Austin; Hyde Park Neighborhood Assoc.; Austin Energy; Motorola; Air & Waste Mgmt. Assoc.; Regional Mobility Authority; Barrio Unido Neighborhood Assoc.; Kiwanis; Mesa Park Neighborhood Assoc.; Downtown Austin Alliance; Bastrop City Council; Bastrop County Commissioners Count; San Marcos City Council
Press Conferences	Ongoing	Start of Ozone Season news conference (4/2); Earth Day news conference w/ Motorola (4/22); First EAC milestone news conference (6/17).
Coverage on EAC activities	Ongoing since 1/31/03	<u>RADIO</u> : Multiple hits on KUT 90.5 FM and KLBK AM <u>TV</u> : Multiple hits on KXAN-36 TV, News 8 Austin, KVUE-24, KTBC-7, KEYE-42 <u>NEWSPAPERS</u> : Multiple hits in Austin American–Statesman (front page story), The Chronicle, The Daily Texan, Austin Business Journal, Round Rock Leader, In Fact Daily, Taylor Daily Press, San Marcos Daily Record

Utility Bill Insert on EAC	August 2003	Info. to 350,000 COA Utility Customers
Website: <a href="http://www.cleanairforce.org">www.cleanairforce.org</a>	Ongoing since 3/17/03	587 hits
Completed Surveys (cards & Web): survey asks opinion on air quality and how it should be improved	Completed	Total of 1034 cards

### Update on Modeling and Other Technical Planning Activities in Support of the Austin MSA Clean Air Action Plan

#### Air Quality Monitoring for 2003 Ozone Season in the Austin/San Marcos MSA

- The objective of the monitoring work plan, to have three ozone monitors operating this season to provide additional coverage of the Austin area to the existing monitors operated by TCEQ, has been implemented. Both the station in Pflugerville and the one in Dripping Springs were operated by CAPCO's contractor, J M Waller & Associates, during the month of May and data transmitted to TCEQ. The Fayette county monitor was started up in early May and is being operated under a CAPCO contract with LCRA, who has subcontracted with Air Quality Solutions to keep the instruments up and running. Data from all three sites can be accessed on line from TCEQ's Monitoring Operations Web Site (<http://www.tnrcc.state.tx.us/air/monops/index.html#ozdata>). Both of the new monitors have recorded exceedences of the 8-hr ozone standard.

#### Air Quality Modeling for the Clean Air Action Plan

- Draft protocols have been developed with the University of Texas CEER technical assistance contract to help define the steps necessary to meet the requirements of the EAC for certain technical components as part of the Clean Air Action Plan (CAAP). The protocols address steps for: (1) performing the photochemical modeling of ozone episodes relevant to the Austin/San Marcos MSA, (2) the process of evaluating and selecting emission reductions measures for inclusion in the area's control strategy, and (3) establishing the necessary performance metrics to be able to evaluate performance of the CAAP as it is implemented.
- In mid-May the University of Texas, under contract with CAPCO, completed the task to provide an updated meteorological (met) model for use with the 1999 ozone episode photochemical model. While the scarcity of actual upper air weather data for the central Texas area during the episode days has been problematic, the results of this effort will be the final version of the met model used with the EAC photochemical modeling.

- Work plans have been approved by TCEQ for photochemical modeling detailing the modeling tasks and schedule necessary to meet the modeling requirements of the EAC. The University of Texas has been contracted with by CAPCO to perform the photochemical modeling of the updated 1999 base year and 2007 attainment year. The September, 1999 episode was initially modeled last year as a joint near nonattainment area project administered by AACOG. While model performance was promising it did not meet EPA specified performance criteria. The final, updated 1999 emissions data is being formatted for submittal to UT. Remodeling of the 1999 base year with the latest emissions and meteorological data is scheduled to begin in early July.
- Evaluation of the various meteorological conditions contributing to high ozone days over the past several years through the end of the 2002 ozone season has been completed under contract by The University of Texas. Recommendations have been made for additional ozone episodes which may be considered for photochemical modeling. The final update of this conceptual model will be made following the 2003 ozone season.

#### **Air Quality Emission Reduction Analysis**

- Members of the vehicle I&M evaluation work group have coordinated with a contractor to develop emission reduction estimates and program costs for several different I&M scenarios which may be considered for the Austin area. The evaluation has also been coordinated with the TCEQ and DPS to share input data and assumptions to ensure results are useful to all participants.
- CAPCO has purchased professional engineering service hours to assist in the technical evaluation of selected emission reduction measures. Evaluations were performed during May of the air quality benefits and costs of the use of Texas Low Emission Diesel fuel in certain vehicles operated by various governmental organizations in the EAC area. Acquisition and use of TxLED during the 2003 ozone season has been shown to have a reasonable cost benefit and will help reduce the likelihood of the area having high ozone days during the 2003 ozone season.